

# CTR Wilson Workshop on Lightning Interferometry

## University of Bath, 12-14<sup>th</sup> November 2018

Sponsored by EarthNetworks

Room 2E3.4 in the Department of Electrical and Electronic Engineering at the University of Bath

### Monday, November 12<sup>th</sup>

- 10:00-10:30 Coffee and Tea
- 10:30-10:45 **Welcome and Introduction**
- 10:45-12:00 **Michael Stock - Techniques for lightning interferometry: imaging, interpolation, nearfield corrections, and deconvolution**
- 12:00-14:00 Lunch break
- 14:00-15:15 **Brian Hare and Olaf Scholten - 3D imaging with meter-level accuracy with the LOFAR radio telescope**
- 15:15-15:30 Tea and Coffee
- 15:30-16:45 **Ivana Kolmasova and Ondrej Santolik - Broad-band electromagnetic measurements of lightning radiation: Overview of IAP instrumentation and latest results**
- 16:45-18:00 Discussion

### Tuesday, November 13<sup>th</sup>

- 9:00-9:30 Coffee and Tea
- 9:30-10:45 **Mark Stanley - Broadband VHF Interferometry Inside Lightning Mapping Arrays**
- 10:45-12:00 **Richard Sonnenfeld - Lightning channel conditioning and the measurement of currents on K-changes**
- 12:00-14:00 Lunch break
- 14:00-15:15 **Martin Fullekrug - Low Frequency Radio Interferometry**
- 15:15-15:30 Tea and Coffee
- 15:30-16:15 **Robert Watson - Measurement of tropospheric refractivity using interferometry**
- 16:15-16:45 **Biagio Forte - Ionospheric irregularity detection with LOFAR**
- 16:45-17:30 Discussion
- 19:00-21:00 Workshop Dinner

### Wednesday, November 14<sup>th</sup>

- 9:00-9:30 Coffee and Tea
- 9:30-10:15 **Zhuling Sun and Mingyuan Liu - Three-dimensional location technology for VHF Lightning Mapping Interferometer system in SHATLE, China**
- 10:15-11:00 **Jeff Lapierre - Remote Measurements of Volcanic Plume Electrification Using a Sparse Network Technique**
- 11:00-11:15 Snacks
- 11:15-12:30 **Michele Urbani - Broadband VHF interferometry to study the origin of the high-energy radiation from lightning**
- 12:30-13:00 **Workshop Summary**
- 15:00-18:00 Exploration of Bath